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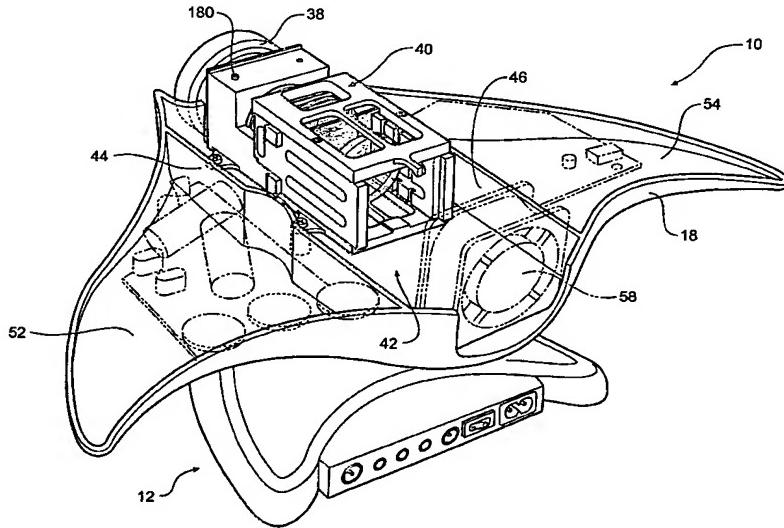
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- (71) Applicant (for all designated States except US): DIGIS-LIDE INTERNATIONAL PTY LTD [AU/AU]; 55 King William Street, North Adelaide, South Australia 5006 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SOPER, Kevin, James [AU/AU]; 2 Doradus Avenue, Hope Valley, South Australia 5090 (AU). BANKS, Philip, Brendan [AU/AU]; 16 Ariadne Crescent, Modbury Heights, South Australia 5092 (AU).
- (74) Agent: LESICAR PERRIN; 49 Wright Street, ADELAIDE, South Australia 5000 (AU).
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(54) Title: A VIDEO PROJECTOR AND OPTICAL ENGINE



(57) Abstract: The present invention relates to a video projector (10) including a housing (18) and an optical engine (40) located therein for projecting an image onto a distal surface. The optical engine (40) includes a liquid crystal display (LCD) projector and further includes an objective lens (38) to focus the image. Such a configuration makes the projector (10) ruggedised in that the optical engine (40) securely holds all of the components necessary to project an image, including the objective lens (38). Furthermore, there exists a channel (42) between the optical engine (40) and the housing (18) which, together with a fan (58) and two strategically positioned cooling vents, allows for the optical components located within the optical engine (40) to be sufficiently cooled. The projector (10) operates through the use of a cooled transformer located in a base (12) which converts mains input, typically 240/110V, to 12V.

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